PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P07420WO				FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No.				International filing da	ate (day/month/year)	Priority date (day/month/year)				
PCT/EP2004/050948			948	27.05.200	4	30.05.2003				
	International Patent Classification (IPC) or national classification and IPC									
Applicant										
SIEMENS AKTIENGESELLSCHAFT										
:										
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2.	This REI	PORT consists	of a total of	5	sheets, including	ng this cover sheet.				
3.	This repo	ort is also accor	mpanied by Al	NNEXES, comprising:	:					
	a. 🖂	(sent to the	applicant and	to the International Bi	ureau) a total of 3	sheets, as follows:				
						amended and are the basis for this report and/or				
			containing rections).	ctifications authorized	by this Authority (see Ru	ale 70.16 and Section 607 of the Administrative				
			-		•	nsiders contain an amendment that goes beyond				
	the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))									
	5									
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see									
				rative Instructions).						
4.	4. This report contains indications relating to the following items:									
	⊠ 1	Box No. I	Basis of the	report						
		Box No. II	Priority							
		Box No. III	Non-establi	shment of opinion witl	regard to novelty, inventive step and industrial applicability					
		Box No. IV	Lack of unit	ty of invention						
		Box No. V		atement under Article d explanations support	• • •	elty, inventive step or industrial applicability;				
		Box No. VI	Certain doc	uments cited						
	Box No. VII Certain defects in the international			ects in the international	l application					
		Box No. VIII	Certain obs	ervations on the intern	ational application					
<u> </u>										
Date of submission of the demand					Date of completion of the	nis report				
Name and mailing address of the IPEA/EP					Authorized officer					
reams and maining address of the FEAVER					Authorized officer					
Fassimila No.				Talankana Na						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/050948

Box	No. I	Basis of the report		
1.		regard to the language, this report is based on the internation ated under this item.	nal application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)	oses of:	·
2.	recei	international preliminary examination (Rule 55.2 and/ regard to the elements of the international application, this ving Office in response to an invitation under Article 14 are report): the international application as originally filed/furnished	report is based on (replacement s	sheets which have been furnished to the viginally filed" and are not annexed to
		the description:		
		pages* 5,5a		as originally filed/furnished 29.08.2005 with letter of 28.08.2005
		pages*	received by this Authority on	
	\boxtimes	the claims:	•	
				as originally filed/furnished
		nos.* 1		31.03.2005 with letter
		nos.*		
	\boxtimes	the drawings:		
		sheets 1/1		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplem	nental Box Relating to Sequence I	Listing.
3.		The amendments have resulted in the cancellation of:		
l		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fi		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."	

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International application No.
PCT/EP2004/050948

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement							
	Novelty (N)		Claims 1-3	YES				
			Claims	NO				
	Inventive step (IS)		Claims 1-3	YES				
			Claims					
	Industrial applicability (IA)		Claims 1-3	YES				
			Claims 1-3	NO YES				
2.	Citations and	Citations and explanations (Rule 70.7)						
	This	report cons	siders the following search report					
	citati	ions:						
	D1:	MINGHAI X	U ET AL: "Implementation techniques of					
	<pre>intserv/diffserv integrated network" IEEE, Vol. 1,</pre>							
			003 (2003-04-09), pages 231-234					
	D2:	WO 01/033						
	D3:							
	_ • •	scheme in a diffserv domain" IEEE, 26 May 2002						
			26), pages 183-187, XP010596794.					
		(2002 05-	,, pages 100 10., m. 010000					
		The appli	cation concerns a method for forwarding					
			s to an external control component of a					
		network n						
		The metho	od makes it possible to forward Internet					
		protocol	packets to a control component assigned					
		to one ne	etwork node in an IP-packet-switching					
1			ations network comprising a plurality of					
			nodes, wherein IP packets are received,					
			ed, evaluated and processed along					
		-	es of the network node. The problem to be					
			y the present invention is that of					
1		sorved bl	one present invention to that or					

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

providing a method by which received IP packets with interface information of the receiving network node can be passed on to an external control component. In this way a control component "placed at the disposal of" a network node can take over a wide range of the control tasks of the network node.

This problem is solved by the fact that in an In-Band IP signalling packet received and recognized by an interface of the network node and characterized by an entry in the protocol field of the header field of the IP packet, a value assigned to the relevant receiving interface, which differs from the values of the corresponding other interfaces, is entered in a particular field of the header field, or IP header, of the IP packet and the modified packet is rerouted/delivered to the control component.

The prior art describes a number of different systems and methods for forwarding of IP packets to an external control components of a network node.

For instance, document D1 discloses improvements for integrated services which are a part of IntServ/DiffServ networks. To this end, Service-Level specifications are suggested wherein particular DSCP values are provided for signalling messages. Document D2 describes a system and a method for differentiated service marking for

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Unicast and Multicast applications, with the possibility of sending out control commands per device (per hop).

Document D3 also discloses control possibilities in Intserv/Diffserv networks having defined DSCP values for different signalling messages.

However, the prior art (D1-D3) does not disclose a method according to which one control component is assigned to one network node each, nor one wherein, by an entry into the header field of the IP packet, interfaces of the relevant network node can be adjusted individually by the assigned control component.

The features of claim 1 are not disclosed in the prior art and also cannot be derived directly from the above documents.

Consequently, independent claim 1 is inventive relative to the prior documents D1 to D3.

Dependent claims 2-3 comprise advantageous embodiments and therefore likewise meet the requirements of PCT Article 33(3).

Consequently, claims 1-3 satisfy the requirements of PCT Article 33.